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MR2833-31

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: V. S. Subrahmanian, et al. : Group
Serial No: 10/774,516 : Art Unit # 3624
Filed: 10 February 2004 : Examiner:
Title: METHOD AND SYSTEM FOR OPTIMAL : Unknown
DATA DIAGNOSIS :
:

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Applicants wish to make the following art references of record in the above-identified Patent Application pursuant to 37 C.F.R. §§ 1.97 and 1.98, and to the Duty of Disclosure set forth in 37 C.F.R. § 1.56.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject Patent Application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search was made or that no other material information, as defined in 37 C.F.R. § 1.56(b), exists.

Cited Publications are:

<u>Ref. No.</u>	<u>Description</u>
A1	Agrawal, R., et al., "MINING ASSOCIATION RULES BETWEEN SETS OF ITEMS IN LARGE DATABASES", Proceedings of the 1993 ACM SIGMOD International Conference on Management of Data, pp. 207 - 216, 1993.
B1	Aumann, Y., et al., "A STATISTICAL THEORY FOR QUANTITATIVE ASSOCIATION RULES", Proceedings of the fifth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pp. 261 - 270, ACM Press, 1999.
C1	Bayardo, R., et al., "MINING THE MOST INTERESTING RULES", Proceedings of the fifth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pp. 145 - 154, ACM Press, 1999.
D1	Bayardo, R., et al., "CONSTRAINT-BASED RULE MINING IN LARGE, DENSE DATABASES", Proceedings of the 15th International Conference on Data Engineering, pp.188 - 197, IEEE Computer Society Press, March 23 -26, 1999.
E1	Brin, S., et al., "BEYOND MARKET BASKETS: GENERALIZING ASSOCIATION RULES TO CORRELATIONS", SIGMOD 1997, Proceedings ACM SIGMOD International Conference on Management of Data, pp. 265 - 276, May 13-15, 1997.
F1	Brin, S., et al., "MINING OPTIMIZED GAIN RULES FOR NUMERIC ATTRIBUTES", Proceedings of the fifth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pp. 135 - 144, ACM Press, 1999.
G1	Fukuda, T., et al., "DATA MINING USING TWO-DIMENSIONAL OPTIMIZED ASSOCIATION RULES: SCHEME, ALGORITHMS, AND VISUALIZATION", ACM SIGMOD Record, Volume 25, Issue 2, pp. 13 - 23, ACM Press, 1996.

- H1 Miller, R., et al., "ASSOCIATION RULES OVER INTERVAL DATA", Proceedings of the 1997 ACM SIGMOD international conference on Management of Data, pp. 452 - 461, ACM Press, 1997.
- I1 Rastogi, R., et al., "MINING OPTIMIZED SUPPORT RULES FOR NUMERIC ATTRIBUTES", Proceedings of the 15th International Conference on Data Engineering, pp. 126 - 135, IEEE Computer Society Press, March 1999.
- J1 Srikant, R., et al., "MINING QUANTITATIVE ASSOCIATION RULES IN LARGE RELATIONAL TABLES", Proceedings of the 1996 ACM SIGMOD International Conference on Management of Data, pp. 1 - 12, ACM Press, 1996.

This Information Disclosure Statement is being filed more than three months subsequent to the Filing Date of the subject Patent Application, but before the mailing of a first Office Action.

MR2833-31
Serial Number: 10/774,516

A Form PTO-1449 and copies of the references are submitted along with this document. It is requested that the Examiner consider the references and make them of record in the above-referenced Patent Application.

Respectfully submitted,
FOR: ROSENBERG, KLEIN & LEE



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number 10/774,516

Filing Date 02/10/2004

First Named Inventor V. S. Subrahmanian, et al.

Art Unit 3624

Examiner Name

Attorney Docket Number MR2833-31

Sheet

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A1	Agrawal, R., et al., "Mining Association Rules between Sets of Items in Large Databases", Proceedings of the 1993 ACM SIGMOD International Conference on Management of Data, pp. 207 - 216, 1993.	
	B1	Aumann, Y., et al., "A statistical theory for quantitative association rules", Proceedings of the fifth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pp. 261 - 270, ACM Press, 1999.	
	C1	Bayardo, R., et al., "Mining the most interesting rules", Proceedings of the fifth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pp. 145 - 154, ACM Press, 1999.	
	D1	Bayardo, R., et al., "Constraint-Based Rule Mining in Large, Dense Databases", Proceedings of the 15th International Conference on Data Engineering, pp.188 - 197, IEEE Computer Society Press, March 23 - 26, 1999.	
	E1	Brin, S., et al., "Beyond Market Baskets: Generalizing Association Rules to Correlations", SIGMOD 1997, Proceedings ACM SIGMOD International Conference on Management of Data, pp. 265 - 276, May 13-15, 1997.	
	F1	Brin, S., et al., "Mining Optimized Gain Rules for Numeric Attributes ", Proceedings of the fifth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, pp. 135 - 144, ACM Press, 1999.	
	G1	Fukuda, T., et al., "Data mining using two-dimensional optimized association rules: scheme, algorithms, and visualization", ACM SIGMOD Record, Volume 25, Issue 2, pp. 13 - 23, ACM Press, 1996.	
	H1	Miller, R., et al., "Association rules over interval data", Proceedings of the 1997 ACM SIGMOD international conference on Management of Data, pp. 452 - 461, ACM Press, 1997.	
	I1	Rastogi, R., et al., "Mining optimized support rules for numeric attributes", Proceedings of the 15th International Conference on Data Engineering, pp. 126 - 135, IEEE Computer Society Press, March 1999.	
	J1	Srikant, R., et al., "Mining Quantitative Association Rules in Large Relational Tables", Proceedings of the 1996 ACM SIGMOD International Conference on Management of Data, pp. 1 - 12, ACM Press, 1996.	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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